- 1. A pharmaceutical preparation comprising a manufactured peptide having the formula pGlu-R<sup>1</sup>-Pro, wherein R<sup>1</sup> is Leu, Tyr or Val, or pharmaceutically acceptable salts thereof, and a pharmaceutically acceptable carrier.
  - 2. The peptide of claim 1 having the formula pGlu-Leu-Pro-NH<sub>2</sub>.
  - 3. The peptide of claim 1 having the formula pGlu-Tyr-Pro-NH<sub>2</sub>.
  - 4. The peptide of claim 1 having the formula pGlu-Val-Pro-NH<sub>2</sub>.
- 5. A method of treatment of depression, schizophrenia or affective disorders in a mammal comprising the following steps:
- a) providing a therapeutically effective amount of a composition comprising a peptide or pharmaceutically acceptable salt thereof of the formula pGlu-R<sup>1</sup>-Pro, wherein R<sup>1</sup> is Leu, Tyr or Val;
  - b) administering the composition to the mammal.
- 6. The method of claim 5, wherein the composition further comprises a pharmaceutically acceptable carrier.
- 7. The method of claim 5, wherein administering comprises administering by a method of administration selected from the group consisting of oral administration and parenteral administration.
  - 8. The method of claim 5 wherein the peptide is pGlu-Leu-Pro-NH<sub>2</sub>.

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- 9. The method of claim 5 wherein the peptide is pGlu-Tyr-Pro-NH<sub>2</sub>.
- 10. The method of claim 5 wherein the peptide is pGlu-Val-Pro-NH<sub>2</sub>.

11. A method for providing therapy for drug dependence in a mammal comprising the following steps:

- a) providing a therapeutically effective amount of a composition comprising a peptide or pharmaceutically acceptable salt thereof of the formula pGlu-R²-Pro, wherein R² is Glu, Phe, Leu, Tyr or Val;
  - b) administering the composition to the mammal.
- 12. The method of claim 11, wherein the composition further comprises a pharmaceutically acceptable carrier.
- 13. The method of claim 11, wherein administering comprises administering by a method of administration selected from the group consisting of oral administration and parenteral administration.
  - 14. The method of claim 11 wherein the peptide is pGlu-Glu-Pro-NH<sub>2</sub>.
  - 15. The method of claim 11 wherein the peptide is pGlu-Phe-Pro-NH<sub>2</sub>.
  - 16. The method of claim 11 wherein the peptide is pGlu-Leu-Pro-NH<sub>2</sub>.
- 17. The method of claim 11 wherein the peptide is pGlu-Tyr-Pro-NH<sub>2</sub>.
  - 18. The method of claim 11 wherein the peptide is pGlu-Val-Pro-NH<sub>2</sub>.

A method for providing analgesia in a mammal comprising the following steps:

a) providing a therapeutically effective amount of a composition comprising a peptide or pharmaceutically acceptable salt thereof of the formula pGlu-R²-Pro, wherein R² is Glu, Phe,

Leu, Tyr or Val;

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b) administering the composition to the mammal.

- 20. The method of claim 19, wherein the composition further comprises a pharmaceutically acceptable carrier.
- 21. The method of claim 19, wherein administering comprises administering by a method of administration selected from the group consisting of oral administration and parenteral administration.
  - 22. The method of claim 19 wherein the peptide is pGlu-Glu-Pro-NH<sub>2</sub>.
  - 23. The method of claim 19 wherein the peptide is pGlu-Phe-Pro-NH<sub>2</sub>.
  - 24. The method of claim 19 wherein the peptide is pGlu-Leu-Pro-NH<sub>2</sub>.
  - 25. The method of claim 19 wherein the peptide is pGlu-Tyr-Pro-NH<sub>2</sub>.
  - 26. The method of claim 19 wherein the peptide is pGlu-Val-Pro-NH<sub>2</sub>.
  - 27. A method for inducing analeptic stimulation in a mammal comprising the following steps:
- a) providing a therapeutically effective amount of a composition comprising a peptide or pharmaceutically acceptable salt thereof of the formula pGlu-R³-Pro, wherein R³ is Glu, Leu or Val;
  - b) administering the composition to the mammal.

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- 28. The method of claim 27, wherein the composition further comprises a pharmaceutically acceptable carrier.
- The method of claim 27, wherein administering comprises administering by a method of
  administration selected from the group consisting of oral administration and parenteral administration.
  - 30. The method of claim 27 wherein the peptide is pGlu-Glu-Pro-NH<sub>2</sub>.
  - 31. The method of claim 27 wherein the peptide is pGlu-Leu-Pro-NH<sub>2</sub>.
  - 32. The method of claim 27 wherein the peptide is pGlu-Val-Pro-NH<sub>2</sub>.